RI STATE HEALTH LABORATORIES CLINICAL SPECIMEN SUBMISSION GUIDANCE

ORGANISM
Arbovirus (EEE,SLE,WNV)
Babesia species
Bacillus anthracis
Bordetella pertussis
Brucella species
Burkholderia mallei
Burkholderia pseudomallei
Campylobacter sp.
Chlamydia psittaci
Chamydia trachomatis
Clostridium botulinum
Corynebacterium diphtheriae
Coxiella burnetti
Creutzfeldt-Jacob disease
Cryptosporidium parvum
Cyclospora cayetanensis
Cyclospora cayctanensis
Dengue virus, type 1,2,3, or 4
201800 (1100) () po 1,2,0, or .
E.coli 0157:H7 and other toxin producing strains
Entamoeba histolytica
Erlichia/Anaplasma species
Francisella tularensis
Giardia lamblia
Haemophilus influenzae
Hantavirus
Hepatitis A virus
Hepatitis B virus
Hepatitis C virus
HIV
T O XI
Influenza Virus

Lead – Whole Blood – Capillary
Lead – Whole Blood – Venous
Lead – Whole Blood – Diagnostic Venous
Legionella sp.
Listeria monocytogenes
, ,
Morbillivirus (Measles)
Mumps virus
Mycobacterium tuberculosis
Neisseria gonorrhea (culture)
Neisseria gonorrhea (NAAT)
Neisseria meningitidis
Norovirus
Plasmodium sp. (Malaria)
Rabies
Rickettsia prowazekii (Typhus)
Rickettsia ricketsii (Rocky Mountain Spotted Fever)
Rubella virus
Salmonella sp.
Salmonella typhi (Typhoid Fever)
Shigella sp.
Staphylococcus aureus, VRSA or VISA
Streptococcus pneumoniae
Streptococcus pyogenes (Group A Strep)
Treponema pallidum (Syphilis)
Variola virus (Smallpox)
Vibrio cholera
Vibrio parahaemolyticus
Vibrio vulnificus
Viral Hemorrhagic Fevers (Ebola, Lassa, Marburg)
Yersinia enterocolitica
Yersinia pestis

<u>ARBOVIRUS</u>

Lab & Phone #: Serology (401) 222-5591

Organism Name: Arbovirus

Disease: Arboviral encephalitis

Description/Test: An enzyme-linked immunosorbent capture assay to detect IgM antibodies

to West Nile Virus. All other requests for arbovirus testing and

confirmations are sent to CDC.

Specimen: Minimum 5 ml serum in red top tube; minimum 2 ml cerebrospinal fluid

(CSF) collected aseptically.

Acute serum and CSF should be collected within the first 14 days

following onset of symptoms

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Arbovirus (WNV)

Transport: Refrigerate at 4° to 8° C and transport within 48 hours of collection on

blue or wet ice.

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens to the HEALTH Serology Laboratory are available in all

hospital laboratories.

Integrity: Non-hemolyzed

Normal Value: Negative

Turnaround Time: 5 business days

<u>BABESIA SPECIES</u>

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism name: Babesia species

Disease: Babesiosis

Description Test: Detection and identification of blood parasites through microscopic

examination of thin blood smears stained with Wright/Giemsa stain.

Specimen: Submit thin blood smears stained with Wright/Giemsa stain. Stained thick

smears may be submitted in addition to thin smears, but not instead of thin smears. Specimens must be labeled with the patient's name or other

identifier such as the requisition form number label.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Blood Parasite ID/Confirmation

Transport: Transport stained smears in cardboard or plastic slide carriers to the

laboratory as soon as possible.

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and

laboratory send out departments.

Integrity: Thick stained blood smear received without a thin stained blood smear

will not be read.

Normal Value: No blood parasites observed

Turnaround Time: 2 business days

BACILLUS ANTHRACIS

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism Name: Bacillus anthracis

Disease: Anthrax (inhalation, cutaneous, gastrointestinal)

Description/Test: PCR and culture to detect and confirm B.anthracis

Special Instructions: ALL LABORATORIES MUST NOTIFY THE DEPARTMENT OF

HEALTH DIVISION OF INFECTIOUS DISEASE AND EPIDEMIOLOGY AT (401)222-2577 AND THE HEALTH

BIOTERRORISM RESPONSE LABORATORY AT (401) 222-5586

IMMEDIATELY WHEN TEST IS ORDERED OR

SPECIMEN/ISOLATE IS SUSPICIOUS FOR A POTENTIAL AGENT OF BIOTERRORISM. PREAUTHORIZATION IS

NECESSARY PRIOR TO SENDING SPECIMENS OR ISOLATES.

Specimen: Refer to the current version of the LRN Sentinel Protocol for appropriate

specimen selection and testing. This protocol is available in your microbiology laboratory and can also be accessed via the internet at:

http://www.asm.org/index.php/policy/sentinel-level-clinical-

microbiology-laboratory-guidelines.html

<u>Isolate</u>: If a lab is unable to rule out *B.anthracis* after performing LRN Sentinel screening tests, isolate is to be submitted on either a slant or a culture plate sealed with parafilm (or other appropriate barrier film). If based on clinical history there is a strong index of suspicion for anthrax, labs may be requested by HEALTH to submit the original culture plate on

the initial day of isolation.

<u>Specimens</u>: If based on clinical history, anthrax is suspected, specimens are accepted for PCR testing. Submit original specimen on day of receipt. Consult with the HEALTH Bioterrorism Laboratory for appropriate specimen selection and submit original specimen as soon as possible after collection. Securely seal with parafilm or other appropriate barrier film and ship maintaining refrigerated temperature conditions by surrounding

the internal shipping container with blue or wet ice.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Isolates: Special Pathogens Bacterial Isolate

Specimens: Special Pathogens Primary Specimen

Transport: Preauthorization is necessary prior to sending primary specimens. All

submissions must be properly packaged in accordance with current federal

shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and laboratory send out departments. Shipments that meet the definition for "Category A" infectious substances as defined by federal regulation require additional packaging/labeling.

Normal Value: Negative for Bacillus anthracis

Turnaround Time: PCR result within 24 hours.

Culture result within 48 hours

BORDETELLA PERTUSSIS

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism Name: Bordetella Pertussis

Disease: Pertussis, Whooping cough

Description/Test: PCR and culture to detect and confirm *B. pertussis*

Specimen: Specimens: Nasopharyngeal specimen, right and left sides, collected on

flexible wire calcium alginate tipped swabs (refer to specimen collection instructions). Submit in Regan-Lowe transport medium, <u>both</u> swabs are to

be submitted in one tube.

<u>Isolates</u>: Submit freshly growing pure isolates on Regan-Lowe or

Bordet Gengou agar plates. Seal plates with parafilm or other barrier film.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: <u>Specimens</u>: Pertussis

Isolate: Write "confirm *B. pertussis*" in comment field on requisition form

Transport: Specimens: Within 24 to 48 hours of collection at ambient (room)

temperature 25° to 30° C. If specimen transport is delayed beyond 48 hours, store the specimen in a refrigerator at 2° to 8° C until transport.

Isolates: At ambient temperature as soon as possible after isolation of

suspect colonies.

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and

laboratory send out departments.

Integrity: Only nasopharyngeal specimens are accepted. Specimens received in

excess of five days from collection will be rejected. Do not use Regan-

Lowe transport tubes past their expiration date.

Normal Value: <u>PCR</u>: Negative for *B. pertussis*.

Culture: Culture negative for *B. pertussis*.

Turnaround Time: PCR: 1 business day.

Culture: 5-15 days (culture plates are held for 10 days before being

reported as negative)

Kit:

Kits containing detailed collection instructions, transport media, and nasopharyngeal swabs are available at HEALTH Laboratories Central Receiving. Kits may be obtained Monday-Friday between 8:30 and 4:30. Media must be stored at 2° to 8° C until use.

BRUCELLA SPECIES

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism Name: Brucella species

Disease: Brucellosis

Description/Test: PCR and culture to detect, confirm and speciate *Brucella sp.*

(Sera is shipped to CDC for serological testing)

Special Instructions: ALL LABORATORIES MUST NOTIFY THE DEPARTMENT OF

HEALTH **DIVISION INFECTIOUS** OF DISEASE EPIDEMIOLOGY AT (401) 222-2577 AND THE HEALTH **BIOTERRORISM RESPONSE LABORATORY AT (401) 222-5586 IMMEDIATELY** IS **ORDERED WHEN TEST** SPECIMEN/ISOLATE IS SUSPICIOUS FOR A POTENTIAL **OF BIOTERRORISM. PREAUTHORIZATION** NECESSARY PRIOR TO SENDING SPECIMENS OR ISOLATES.

Specimen: Refer to the current version of the LRN Sentinel Protocol for appropriate

specimen selection and testing. This protocol is available in your microbiology laboratory and can also be accessed via the internet at:

http://www.asm.org/index.php/policy/sentinel-level-clinical-

microbiology-laboratory-guidelines.html

<u>Isolate</u>: If a lab is unable to rule out *Brucella sp.* after performing LRN Sentinel screening tests, isolate is to be submitted on either a slant or a culture plate sealed with parafilm (or other appropriate barrier film). If based on clinical history there is a strong index of suspicion for brucellosis, labs may be requested by HEALTH to submit the original culture plate on the initial day of isolation.

<u>Clinical Specimens</u>: If based on clinical history there is an index of suspicion for brucellosis, specimens are accepted for PCR testing. Submit original specimen on day of receipt. Consult with the HEALTH BT/SP Laboratory at (401) 222-5586) for appropriate specimen selection and submit original specimen as soon as possible after collection. HEALTH BT/SP Lab also forwards serum specimens to CDC for *Brucella sp.* serological testing. In addition to a HEALTH test requisition form, a CDC DASH Form must be completed and submitted with the specimen. Securely seal with parafilm or other appropriate barrier film and ship maintaining refrigerated temperature conditions by surrounding the internal shipping container with blue or wet ice.

Form Required: Rhode Island State Health Laboratories test requisition form

CDC DASH Form is also required for serological testing

Test Request: <u>Isolates</u>: Special Pathogens Bacterial Isolate

Specimens: Special Pathogens Primary Specimen

Transport: Preauthorization is necessary prior to sending specimens or isolates. All

submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and laboratory send out departments. Shipments that meet the definition for "Category A" infectious substances as defined by federal regulation require

additional packaging/labeling.

Normal Value: Negative for *Brucella sp*

Turnaround Time: PCR result within 24 hours.

Culture results are dependent on the growth rate of the organism.

BURKHOLDERIA MALLEI

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism Name: Burkholderia mallei

Disease: Glanders

Description/Test: PCR and culture to detect *B.mallei*

Special Instructions: ALL LABORATORIES MUST NOTIFY THE DEPARTMENT OF

DIVISION HEALTH **OF INFECTIOUS** DISEASE **EPIDEMIOLOGY** \mathbf{AT} (401)222-2577 **AND** THE **HEALTH BIOTERRORISM RESPONSE LABORATORY AT (401) 222-5586 IMMEDIATELY ORDERED WHEN TEST** IS SPECIMEN/ISOLATE IS SUSPICIOUS FOR A POTENTIAL **OF BIOTERRORISM. PREAUTHORIZATION AGENT** NECESSARY PRIOR TO SENDING SPECIMENS OR ISOLATES.

Specimen: Refer to the current version of the LRN Sentinel Protocol for appropriate

specimen selection and testing. This protocol is available in your microbiology laboratory and can also be accessed via the internet at:

http://www.asm.org/index.php/policy/sentinel-level-clinical-

microbiology-laboratory-guidelines.html

<u>Isolate</u>: If a lab is unable to rule out *B. mallei* after performing LRN Sentinel screening tests, isolate is to be submitted on either a slant or a culture plate sealed with parafilm (or other appropriate barrier film). If based on clinical history there is a strong index of suspicion for glanders, labs may be requested by HEALTH to submit the original culture plate on

the initial day of isolation.

<u>Clinical Specimens</u>: If based on clinical history there is an index of suspicion for glanders, specimens are accepted for PCR testing. Submit original specimen on day of receipt. Consult with the HEALTH Bioterrorism Laboratory for appropriate specimen selection and submit original specimen as soon as possible after collection. Securely seal with parafilm or other appropriate barrier film and ship maintaining refrigerated temperature conditions by surrounding the internal shipping container with

blue or wet ice.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: <u>Isolates</u>: Special Pathogens Bacterial Isolate

Specimens: Special Pathogens Primary Specimen

Transport: Preauthorization is necessary prior to sending specimens or isolates. All

submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and laboratory send out departments. Shipments that meet the definition for "Category A" infectious substances as defined by federal regulation require

additional packaging/labeling.

Normal Value: Negative for Burkholderia mallei

Turnaround Time: PCR result: within 24 hours.

Culture results: within 5 days of isolate receipt

BURKHOLDERIA PSEUDOMALLEI

Lab & Phone # Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism Name: Burkholderia pseudomallei

Melioidosis Disease:

Description/Test: PCR and culture to detect B. pseudomallei

ALL LABORATORIES MUST NOTIFY THE DEPARTMENT OF Special Instructions:

> HEALTH **DIVISION OF INFECTIOUS DISEASE AND EPIDEMIOLOGY** (401)222-2577 AT AND THE **HEALTH BIOTERRORISM RESPONSE LABORATORY AT (401) 222-5586** IMMEDIATELY WHEN TEST IS **ORDERED** SPECIMEN/ISOLATE IS SUSPICIOUS FOR A POTENTIAL AGENT **OF** BIOTERRORISM. **PREAUTHORIZATION** NECESSARY PRIOR TO SENDING SPECIMENS OR ISOLATES.

Specimen: Refer to the current version of the LRN Sentinel Protocol for appropriate

specimen selection and testing. This protocol is available in your microbiology laboratory and can also be accessed via the internet at:

http://www.asm.org/index.php/policy/sentinel-level-clinical-

microbiology-laboratory-guidelines.html

Isolate: If a lab is unable to rule out *B.pseudomallei* after performing LRN Sentinel screening tests, isolate is to be submitted on either a slant or a culture plate sealed with parafilm (or other appropriate barrier film). If based on clinical history there is a strong index of suspicion for melioidosis may be requested by HEALTH to submit the original culture plate on the initial day of isolation.

Clinical Specimens: If based on clinical history there is an index of suspicion for melioidosis are accepted for PCR testing. Submit original specimen on day of receipt. Consult with the HEALTH Bioterrorism Laboratory for appropriate specimen selection and submit original specimen as soon as possible after collection. Securely seal with parafilm or other appropriate barrier film and ship maintaining refrigerated temperature conditions by surrounding the internal shipping container with blue or wet ice.

Form Required: Rhode Island State Health Laboratories test requisition form

Isolates: Special Pathogens Bacterial Isolate Test Request:

Specimens: Special Pathogens Primary Specimen

Transport: Preauthorization is necessary prior to sending specimens or isolates. All

submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and laboratory send out departments. Shipments that meet the definition for "Category A" infectious substances as defined by federal regulation require

additional packaging/labeling.

Normal Value: Negative for *Burkholderia pseudomallei*

Turnaround Time: PCR result: within 24 hours.

Culture results: within 5 days of isolate receipt

CAMPYLOBACTER SP.

Lab & Phone #: Molecular Diagnostics & Enteric Pathogens (401) 222-5538

Organism Name: Campylobacter species

Disease: Campylobacteriosis

Specimen: Pure isolate not more than 48 hours old submitted on Campy Blood Agar,

Campy Thio, or Chocolate Agar transported in a Campy transport pack. Isolates on plated media must be sealed with parafilm or other appropriate

barrier film and have isolated colonies.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Enteric Pathogen Isolate

Write "Campylobacter" in comment field on requisition form

Transport: Within 24 to 48 hours of subculture using a campy transport packet. Hold

at ambient (room) temperature, 25° to 30° C.

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Molecular & Enteric Laboratory are available in all microbiology labs and laboratory send out

departments.

Integrity: Isolates not received on stated media or without a campy pack will be

discarded.

Normal Value: Negative for *Campylobacter sp.*

Turnaround Time: 14 days

<u>CHLAMYDIA PSITTACI</u>

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism name: Chlamydia psittaci

Disease: Ornithosis (Psittacosis)

Description Test: Preauthorization from the HEALTH Division of Infectious Disease and

Epidemiology is required (401) 222-2577. If testing is approved, specimens are sent from the HEALTH Special Pathogens Laboratory to

the CDC for testing.

Specimen: Consult with the HEALTH Special Pathogens Lab at (401) 222-5586 for

guidance on specimen selection, collection and submission.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: CDC Sendout

Transport: All submissions must be properly packaged in accordance with current

federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and

laboratory send out departments.

Turnaround Time: Unknown (testing performed by CDC)

CHLAMYDIA TRACHOMATIS

Lab & Phone #: Serology (401) 222-5591

Organism Name: Chlamydia trachomatis

Disease: Chlamydia (genital)

Chlamydia (ophthalmic/pneumonia)

Description/Test: Nucleic Acid Amplification

Specimen: Swab (endocervix, urethra, vagina) or urine. Follow instructions for

collection printed on each collection kit.

This test is only approved for specimens from the following sites: endocervix, vagina, urethra or urine. Specimens received from other sites

will be rejected.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Chlamydia / Gonorrhea (cervical), Chlamydia / Gonorrhea (urethral),

Chlamydia / Gonorrhea (urine), or Chlamydia / Gonorrhea (vaginal)

Transport: Specimen may be held at 2° to 30°C until transport. Specimen must be

received within 60 days of collection.

All submissions must be properly packaged in accordance with current

federal shipping regulations.

Integrity: Specimens not received in approved collection kit will be rejected

Normal Value: Negative

Turnaround Time: 3 business days

Kit: Kits are available at HEALTH Laboratories Central Receiving and may be

obtained Monday – Friday between 8:30 am and 4:30 pm. Test kit order

forms can be faxed to (401)222-6985

CLOSTRIDIUM BOTULINUM

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism Name: Clostridium botulinum

Disease: Botulism

Description/Test: Specimens are sent by the HEALTH Laboratories for testing to

either the CDC or another State's Health Department Laboratory that has this testing capacity. Testing may include DIG ELISA, PCR, culture and mouse bioassay to detect and confirm presence

of C.botulinum toxin.

Special Instructions: ALL LABORATORIES MUST NOTIFY THE DEPARTMENT OF

OF HEALTH DIVISION **INFECTIOUS** DISEASE **EPIDEMIOLOGY** (401)222-2577 AND THE **HEALTH** \mathbf{AT} BIOTERRORISM RESPONSE LABORATORY AT (401) 222-5586 IMMEDIATELY WHEN TEST IS ORDERED OR SPECIMEN / ISOLATE IS SUSPICIOUS FOR POTENTIAL AGENTS OF **PREAUTHORIZATION** BIOTERRORISM. IS NECESSARY

PRIOR TO SENDING SPECIMENS OR ISOLATES.

Specimen: Refer to the current version of the LRN Sentinel Protocol for appropriate

specimen selection. This protocol is available in your microbiology laboratory and can also be accessed via the internet at:

http://www.asm.org/index.php/policy/sentinel-level-clinical-

microbiology-laboratory-guidelines.html

<u>Clinical Specimens</u>: If based on clinical history there is an index of suspicion for botulism, consult with the HEALTH Bioterrorism Response Laboratory ((401) 222-5586) for appropriate specimen selection and submit original specimen as soon as possible after collection. Securely seal with parafilm or other appropriate barrier film and ship maintaining refrigerated temperature conditions by surrounding the internal shipping

container with blue or wet ice.

<u>Isolate</u>: If a lab is unable to rule out *C.botulinum*, the isolate is to be submitted to the HEALTH Lab after consultation with the HEALTH Bioterrorism Response & Special Pathogens Lab ((401) 222-5586). If based on clinical history there is a strong index of suspicion for botulism, labs may be requested by HEALTH to submit the original culture plate on

the initial day of isolation.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: <u>Isolates</u>: Special Pathogens Bacterial Isolate

Specimens: Special Pathogens Primary Specimen

Transport: Preauthorization is necessary prior to sending specimens or isolates. All

submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and laboratory send out departments. Shipments that meet the definition for "Category A" infectious substances as defined by federal regulation require

additional packaging/labeling.

Normal Value: Negative for Clostridium botulinum

Turnaround Time: Dependent on the reference lab performing the tests and which tests are

performed.

COXIELLA BURNETII

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism Name: Coxiella burnetii

Disease: Q Fever

Description/Test: PCR for detection of *C. burnetii*

(Sera is shipped to CDC for serological testing)

Special Instructions: ALL LABORATORIES MUST NOTIFY THE DEPARTMENT OF

DIVISION **INFECTIOUS** HEALTH **OF** DISEASE **AND** (401)222-2577 THE **EPIDEMIOLOGY** \mathbf{AT} AND HEALTH **BIOTERRORISM RESPONSE LABORATORY AT (401) 222-5586 IMMEDIATELY** WHEN **TEST** IS **ORDERED** SPECIMEN/ISOLATE IS SUSPICIOUS FOR A POTENTIAL AGENT **OF BIOTERRORISM. PREAUTHORIZATION** NECESSARY PRIOR TO SENDING SPECIMENS OR ISOLATES.

Specimen: Refer to the current version of the LRN Sentinel Protocol for appropriate

specimen selection and testing. This protocol is available in your microbiology laboratory and can also be accessed via the internet at:

http://www.asm.org/index.php/policy/sentinel-level-clinical-

microbiology-laboratory-guidelines.html

<u>Clinical Specimens</u>: If based on clinical history there is an index of suspicion for Q Fever; specimens are accepted for PCR testing. Submit original specimen on day of receipt. Consult with the HEALTH BT/SP Laboratory for appropriate specimen selection and submit original specimen as soon as possible after collection. HEALTH BT/SP Lab also forwards serum specimens to CDC for *C.burnetii* serological testing. In addition to a HEALTH test requisition form, a CDC DASH Form must be completed and submitted with the serum specimen. Securely seal with parafilm or other appropriate barrier film and ship maintaining refrigerated temperature conditions by surrounding the internal shipping container with

blue or wet ice

Form Required: Rhode Island State Health Laboratories test requisition form

CDC DASH form is also required for serology testing requests

Test Request: Special Pathogens Primary Specimen

Transport: Preauthorization is necessary prior to sending specimens. All submissions

must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and

isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and laboratory send out departments. Shipments that meet the definition for "Category A" infectious substances as defined by federal regulation require additional packaging/labeling.

Normal Value: Negative for *Coxiella burnetii*

Turnaround Time: PCR result within 24 hours

CORYNEBACTERIUM DIPHTHERIAE

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism Name: Corynebacterium diphtheriae

Disease: Diphtheria

Description/Test: Isolation and identification of *C. diphtheriae*

Specimen: Submit freshly growing, pure isolate subculture on appropriate media. If

plated media is used, seal with parafilm or other appropriate barrier film.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: <u>Isolates</u>: Special Pathogens Bacterial Isolate

Write "rule out C.diphtheriae" or "confirm C.diphtheriae" in comment

field on requisition form

*Specimens: Special Pathogens Primary Specimen

Write "rule out *C.diphtheriae*" in comment field on requisition form

*HEALTH Special Pathogens Laboratory provides testing on primary specimens **only with prior arrangement.** For further information contact

the Special Pathogens Laboratory at (401) 222-5586

Transport: <u>Isolates</u>: 24 to 48 hours of subculture at ambient temperature 25° to 30° C.

<u>Specimens</u>: Must be received on the day of collection. Call Special Pathogens Laboratory at (401) 222-5586 for specific instructions on

collecting and transporting specimens.

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and

laboratory send out departments.

Normal Value: Negative for *Corynebacterium diphtheriae*

Turnaround Time: 72 hours

CREUTZFELDT-JACOB DISEASE

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Disease: Creutzfeldt-Jacob Disease

Description Test: Preauthorization from the HEALTH Division of Infectious Disease and

Epidemiology is required ((401)222-2577) for testing. If testing is approved, specimens are sent from the HEALTH Special Pathogens Laboratory to the CJD Surveillance National Prion Disease Pathology Surveillance Center (NPDPSC). Further testing information, fees and

required form(s) are available at www.cjdsurveillance.com

Specimen: Consult with the HEALTH Special Pathogens Laboratory at (401) 222-

5586 for guidance on specimen selection, collection and submission.

Form Required: Rhode Island State Health Laboratories test requisition form

CJD National Prion Disease Pathology Test Request Form

Test Request: Special Pathogens Primary Specimen

Transport: All submissions must be properly packaged in accordance with current

federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and

laboratory send out departments.

Turnaround Time: Unknown (testing performed by NPDPSC)

CRYPTOSPORIDIUM PARVUM

Lab & Phone #: Molecular Diagnostics & Enteric Pathogens (401) 222-5538

Organism name: Cryptosporidium parvum

Disease: Cryptosporidiosis

Description/Test: Enzyme Immunoassay (EIA)

Special Instructions: TESTING IS ONLY AVAILABLE FOR SPECIMENS WITH PRIOR

APPROVAL THROUGH THE DEPARTMENT OF HEALTH DIVISION OF INFECTIOUS DISEASE AND EPIDEMIOLOGY AT

(401) 222-2577.

Specimen: Stool specimen in appropriate preservative. Fill collection container \(\frac{1}{4} \) to

½ full. Unpreserved specimen is acceptable. Oocysts may be shed intermittently. Multiple stool specimens may be required for detection.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Ova & Parasite

Write "Cryptosporidium" in comment field on requisition form

Transport: Store at 2 to 8 °C and deliver to lab as soon as possible.

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Molecular & Enteric Laboratory are available in all microbiology labs and laboratory send out

departments

Normal Value: Negative Cryptosporidium

Turnaround Time: 4 business days

Kit: Kits are available at HEALTH Laboratories Central Receiving and may be

obtained Monday - Friday between 8:30am and 4:30 pm.

CYCLOSPORA CAYETANENIS

Lab & Phone #: Molecular Diagnostics & Enteric Pathogens (401) 222-5538

Organism Name: *Cyclospora cayetanensis*

Disease: Cyclosporiasis

Description/Test: Fluorescent microscopy

Special Instructions: PREAUTHORIZATION BY THE HEALTH DIVISION OF

INFECTIOUS DISEASE AND EPIDEMIOLOGY (401)222-2577 IS

REQUIRED PRIOR TO SPECIMEN SUBMISSION

Specimen: Stool specimen in appropriate preservative. Fill collection container ¼ to

½ full. Unpreserved specimen is acceptable. Oocysts may be shed intermittently. Multiple stool specimens may be required for detection.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Ova & Parasite

Write "Cyclospora" in comment field on requisition form

Transport: Store at 2 to 8 °C and deliver to lab as soon as possible

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Molecular & Enteric laboratory are available in all microbiology labs and laboratory send out departments

Normal Value: Negative Cyclospora

Turnaround Time: 4 business days

Kit: Kits are available at HEALTH Laboratories Central Receiving and may be

obtained Monday - Friday between 8:30am and 4:30pm.

DENGUE FEVER

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism name: Dengue viruses (1, 2, 3, 4)

Disease: Dengue fever, Dengue Hemorrhagic Fever

Test: Dengue testing is available from commercial laboratories. Consultation

and approval from HEALTH Division of Infectious Disease and Epidemiology is required for testing by the CDC Dengue Lab (401) 222-2577. If testing is approved, human clinical specimens are sent from the HEALTH Special Pathogens Laboratory to the CDC for testing. Diagnostic testing at CDC depends on the specimen sent. Convalescent serum (collected >5 days after symptom onset is tested by ELISA for IgM. Acute serum (collected within 5 days of onset) is tested by PCR and an

ELISA for IgG.

Specimen: Submit serum (2ml minimum) only. Collect blood in red top tube

centrifuge and send only the serum to the HEALTH Laboratory. Serum is to be stored refrigerated at 2° - 8° C and transported to the HEALTH Laboratory on wet or blue ice. Indicate on the test requisition form

whether the serum is acute or convalescent.

Forms Required: Rhode Island State Health Laboratories test requisition form

CDC DASH Form

CDC "Dengue Case Investigation Report"

Test Request: CDC Sendout

Transport: See "Specimen" information above. Contact the HEALTH Special

Pathogens Lab (401) 222-5586 prior to transport. All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and laboratory send out departments.

Turnaround Time: Unknown (testing performed by CDC)

E. COLI 0157:H7 AND OTHER TOXIN PRODUCING STRAINS

Lab & Phone #: Molecular Diagnostics & Enteric Pathogens (401) 222-5538

Organism name: Escherichia coli 0157:H7

Disease: E.coli 0157:H7 gastroenteritis

Description/Test: Genus and species identification of pathogenic isolates

Specimen: Pure isolate not more than 48 hours old on appropriate plated media sealed

with parafilm or other appropriate barrier film is preferred. Appropriate

tubed media is also acceptable.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Enteric Pathogen Isolate

Write "E. coli 0157:H7" in comment field on requisition form

Transport: Within 24 to 48 hours of subculture at ambient (room) temperature 25° to

35° C

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Molecular & Enteric Laboratory are available in all microbiology labs and laboratory send out

departments.

Integrity: Pure isolate must be received

Normal Value: Negative for *E. coli 0157:H7*

Turnaround Time: Up to 14 business days

ENTAMOEBA HISTOLYTICA

Lab & Phone#: Molecular Diagnostics & Enteric Pathogens (401) 222-5538

Organism name: Entamoeba histolytica

Disease: Amebiasis

Description/Test: Enzyme Immunoassay (EIA)

Special Instructions: PREAUTHORIZATION BY THE HEALTH DIVISION OF

INFECTIOUS DISEASE AND EPIDEMIOLOGY (401)222-2577 IS

REQUIRED PRIOR TO SPECIMEN SUBMISSION

Specimen: Stool specimen in appropriate preservative. Fill collection container ½ to

½ full. Unpreserved specimen is acceptable. Oocysts may be shed intermittently. Multiple stool specimens may be required for detection.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Ova & Parasite

Write "Entamoeba histolytica" in comment field on requisition form

Transport: Store at 2° - 8 °C and deliver to lab as soon as possible

Normal Value: Negative Entamoeba histolytica

Turnaround Time: 4 business days

Kit: Kits are available at HEALTH Laboratories Central Receiving and may be

obtained Monday - Friday between 8:30am and 4:30pm. Test kit order

forms may be faxed to (401) 222-6985

EHRLICHIA / ANAPLASMA SPECIES

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism Name: E. chaffeensis / A. phagocytophilum

Disease: Ehrlichiosis / Anaplasmosis

Description/Test: Detection and identification of blood parasites through microscopic

examination of thin blood smears stained with Wright/Giemsa stain.

Specimen: Submit thin blood smears stained with Wright/Giemsa stain. Stained buffy

coat smears and thick smears may be submitted in addition to thin smears, but not instead of thin smears. Specimens must be labeled with the patient's name or other identifier such as the requisition form number

label

.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Blood Parasite ID/Confirmation

Transport: Transport stained smears in cardboard or plastic slide carriers to the

laboratory as soon as possible. All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and laboratory send out departments.

Integrity: Thick stained blood smears received without a thin stained blood smear

will not be tested

Normal Value: No blood parasites observed

Turnaround Time: 2 business days

FRANCISELLA TULARENSIS

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism Name: Francisella tularensis

Disease: Tularemia

Description/Test: PCR and culture to detect and confirm *F.tularensis*

Special Instructions: ALL LABORATORIES MUST NOTIFY THE DEPARTMENT OF

HEALTH DIVISION OF INFECTIOUS DISEASE AND EPIDEMIOLOGY AT (401) 222-2577 AND THE HEALTH

BIOTERRORISM RESPONSE LABORATORY AT (401) 222-5586

IMMEDIATELY WHEN TEST IS ORDERED OR

SPECIMEN/ISOLATE IS SUSPICIOUS FOR AGENTS OF BIOTERRORISM. PREAUTHORIZATION IS NECESSARY

PRIOR TO SENDING SPECIMENS OR ISOLATES.

Specimen: Refer to the current version of the LRN Sentinel Protocol for appropriate

specimen selection and testing. This protocol is available in your microbiology laboratory and can also be accessed via the internet at:

http://www.asm.org/index.php/policy/sentinel-level-clinical-

microbiology-laboratory-guidelines.html

<u>Isolate</u>: If a lab is unable to rule out *F. tularensis* after performing LRN Sentinel screening tests, isolate is to be submitted on either a slant or a culture plate sealed with parafilm (or other appropriate barrier film). If based on clinical history there is a strong index of suspicion for tularemia, labs may be requested by HEALTH to submit the original culture plate on

the initial day of isolation.

<u>Clinical Specimens</u>: If based on clinical history, tularemia is suspected, specimens are accepted for PCR testing. Submit original specimen on day of receipt. Consult with the HEALTH Bioterrorism Laboratory for appropriate specimen selection and submit original specimen as soon as possible after collection. Securely seal with parafilm or other appropriate barrier film and ship maintaining refrigerated temperature conditions by surrounding the internal shipping container with blue or wet ice.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Isolates: Special Pathogens Bacterial Isolate

Specimens: Special Pathogens Primary Specimen

Transport: Preauthorization is necessary prior to sending specimens or isolates. All

submissions must be properly packaged in accordance with current federal

shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and laboratory send out departments. Shipments that meet the definition for "Category A" infectious substances as defined by federal regulation require additional packaging/labeling.

Normal Value: Negative for Francisella tularensis

Turnaround Time: PCR result within 24 hours.

Culture result within 72 hour (dependent on growth rate)

GIARDIA LAMBLIA

Lab & Phone #: Molecular Diagnostics & Enteric Pathogens (401) 222-5538

Organism name: Giardia lamblia

Disease: Giardiasis

Description/Test: Enzyme Immunoassay (EIA)

Special Instructions: PREAUTHORIZATION BY THE HEALTH DIVISION OF

INFECTIOUS DISEASE AND EPIDEMIOLOGY AT (410)222-2577

IS REQUIRED PRIOR TO SPECIMEN SUBMISSION

Specimen: Stool specimen in appropriate preservative. Fill collection container ½ to

½ full. Unpreserved specimen is acceptable. Oocysts may be shed intermittently. Multiple stool specimens may be required for detection.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Ova & Parasite

Write "Giardia lamblia" in comment field on requisition form

Transport: Store at 2° - 8 °C and deliver to lab as soon as possible

Normal Value: Negative Giardia lamblia

Turnaround Time: 4 business days

Kit: Kits are available at HEALTH Laboratories Central Receiving and may be

obtained Monday - Friday between 8:30am - 4:30 pm. Test kit order

forms may be faxed to (401) 222-6985

HAEMOPHILUS INFLUENZAE

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism Name: Haemophilus influenzae

Disease: H. influenzae

Description/Test: H. influenzae confirmation and serotyping

Specimen: Submit freshly growing, pure isolate from invasive disease/normally

sterile site on a chocolate agar slant secured with a screw cap. If plated media is used, seal plate with parafilm or other appropriate barrier film.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Special Pathogens Bacterial Isolate

Write "H. influenzae" in comment field of requisition form

Transport: As soon as possible at ambient temperature 25° to 30° C.

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and

laboratory send out departments.

Turnaround Time: Confirmation and serotype within 72 hours

HANTAVIRUS

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism Name: Hantavirus

Disease: Hantavirus Pulmonary Syndrome (HPS)

Specimen: PREAUTHORIZATION BY THE HEALTH DIVISION OF

INFECTIOUS DISEASE AND EPIDEMIOLOGY (401)222-2577 IS REQUIRED PRIOR TO SPECIMEN COLLECTION AND

SUBMISSION.

Contact the HEALTH Bioterrorism Response and Special Pathogens Laboratory (401) 222-2256 for specific specimen collection instructions

and specialized submission forms.

Test: If testing is approved, specimens are sent from the HEALTH Special

Pathogens Laboratory to the CDC for testing. Diagnostic testing at CDC depends on the specimen sent and may include serology,

immunohistochemistry, PCR, and virus isolation.

Forms Required: Rhode Island State Health Laboratories test requisition form

CDC DASH Form

CDC "Hantavirus Pulmonary Syndrome Case Report Form"

Test Request: CDC Sendout

Transport: Contact the HEALTH Special Pathogens Lab (401) 222-5586 **prior** to

transport. All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all

microbiology labs and laboratory send out departments.

Turnaround Time: Unknown (testing performed by CDC)

HEPATITIS A VIRUS

Lab & Phone #: Serology (401) 222-5591

Organism name: Hepatitis A virus

Disease: Hepatitis A

Description /Test: Two-step immunoassay for the qualitative detection of IgM anti-HAV in

human serum and plasma using CMIA technology

Specimen: Minimum 5ml serum or plasma

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Hepatitis A IgM

Transport: Transport as soon a possible. Specimen can be stored at 2° - 8°C for up to

one week.

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens to the HEALTH Serology Laboratory are available in all

hospital laboratories.

Integrity: Non-hemolyzed

Normal Value: Negative

Turnaround Time: Routine is up to 2 weeks. STAT testing may be requested by

contacting the laboratory directly at (401) 222-5591

HEPATITIS B VIRUS

Lab & Phone #: Serology (401) 222-5591

Organism Name: Hepatitis B virus

Disease: Hepatitis B

Description/Test: Two-step immunoassay for the qualitative detection of Hepatitis B

antigen and antibodies

Specimen: Minimum 5ml serum or plasma

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Hepatitis B Core IgM, Hepatitis B Total Core, Hepatitis Surface

Antibody, Hepatitis B Surface Antigen

Transport: As soon as possible. Specimen can be stored at 2° - 8° C for up to

one week.

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens to the HEALTH Serology Laboratory are available in all

hospital laboratories.

Integrity: Non-hemolyzed

Normal Value: Negative

Turnaround Time: Routine is up to 2 weeks. STAT testing may be requested by

contacting the laboratory directly at (401) 222-5591

HEPATITIS C VIRUS

Lab & Phone #: Serology (401) 222-5591

Organism name: Hepatitis C virus

Disease: Hepatitis C

Description/Test: Two-step immunoassay for the qualitative detection of Hepatitis C

antibodies

Specimen: Minimum 5ml serum or plasma

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Hepatitis C

Transport: Transport as soon as possible. Specimens may be stored at 2° - 8°C for up

to one week.

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens to the HEALTH Serology Laboratory are available in all

hospital laboratories.

Integrity: Non-hemolyzed

Normal value: Negative

Turnaround Time: Routine is up to 2 weeks. STAT testing may be requested contacting the

laboratory directly at (401) 222-5591

HUMAN IMMUNODEFICIENCY VIRUS (HIV), 1 AND 2/p24 ANTIGEN

Lab & Phone #: Serology (401) 222-5591

Organism name: Human Immunodeficiency Virus (HIV 1 and 2)

Description/Test: Screen – A chemiluminescent microparticle immunoassay (CMIA) for the

simultaneous qualitative detection of human immunodeficiency virus (HIV), p24 antigen and antibodies to HIV type 1 (HIV-1 group M and group O) and/or type 2 (HIV-2) in human serum and plasma (EDTA and

heparin)

Confirmation - (Antigen): In vitro nucleic acid assay system for the

detection of human immunodeficiency virus (HIV-1).

(Antibody): Immunoassay to detect and differentiate antibodies to Human

Immunodeficiency Virus Types 1 and 2 (HIV-1, HIV-2)

Specimen: Minimum 5ml serum or plasma. FOR CONFIRMATION TESTING:

ORIGINAL SPECIMEN MUST BE RECEIVED.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: HIV

Transport: Transport as soon as possible. Stable at 2 ° - 8 °C for one week

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens to the HEALTH Serology Laboratory are available in all

hospital laboratories.

Integrity: Non-hemolyzed

Normal Value: Negative

Turnaround Time: Screen: 2 business days

Confirmation: 5 business days

Special Instructions: HEALTH CARE WORKER EXPOSURES WILL BE EXPEDITED;

CONTACT SEROLOGY FOR ADDITIONAL INSTRUCTIONS AT

(401) 222-5591

INFLUENZA VIRUS

Lab & Phone #: Molecular Diagnostic & Enteric Pathogens (401) 222-5538

Organism Name: Influenza Virus

Disease: Influenza

Description/Test: RT-PCR for detection of Influenza

Special Instructions: SPECIMENS ARE ACCEPTED FROM DESIGNATED RI

SENTINAL SITES THAT ARE APPROVED BY THE

DEPARTMENT OF HEALTH DIVISION OF INFECTIOUS

DISEASE AND EPIDEMIOLOGY (401) 222-2577.

PREAUTHORIZATION MUST BE OBTAINED FROM THE DEPARTMENT OF HEALTH DIVISION OF INFECTIOUS DISEASE AND EPIDEMIOLOGY PRIOR TO ALL OTHER

LABORATORIES SENDING SPECIMENS.

Specimen: Refer to the Influenza Sentinel Protocol for appropriate specimen selection

and testing. This protocol is available at all designated influenza sentinel

testing sites

After specimen is obtained, place in viral transport medium and refrigerate

until transport.

Clinical Specimens: must be submitted in Viral Transport Medium:

Specimen Type:

Nasopharyngeal swabs (swab must be included in the tube)

Oropharyngeal (Throat) swabs (swab must be included in the tube)

A combination of the NP and Throat swab together

Submit the following in Viral Transport Medium (VTM)

(dilute specimen 1:2 with VTM)

Nasal Aspirate

Bronchoalveolar Lavage

Tracheal (Endotracheal) aspirate

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Write "FLU" in comment field on requisition form.

Transport: Preauthorization is necessary prior to sending specimens from sites that

are not part of the RI Department Of Health Influenza Sentinel Program.

Transport maintaining refrigerated temperature conditions by surrounding

specimen with blue or wet ice. If unable to transport within 72 hours, the specimen must be aliquoted and frozen at -70°C

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Molecular & Enteric Laboratory are available in all microbiology labs and laboratory send out departments.

Normal Value: PCR Negative for Influenza A and B

Turnaround Time: PCR result within 24 hours

LEAD, WHOLE BLOOD, CAPILLARY FINGERSTICK

Lab & Phone #: Biomonitoring (401) 222-5552

Description/Test: Graphite furnace atomic absorption spectrophotometer

Specimen: Quantitative screening test of lead in blood of children under age 6.

Collect 300 µL of whole blood in capillary tube.

Form Required: Rhode Island State Health Laboratories test requisition form.

Test Request: Lead Screen (Fingerstick)

Transport: Stable at 2° - 8° C for one month.

Integrity: Clotted blood is unacceptable

Normal Value: Children: 0 to 9 µg/dL

Turnaround Time: 5 business days

Kit: Kits are available from the HEALTH Laboratories Central Receiving and

may be obtained Monday – Friday between 8:30 am and 4:30 pm. Test kit

order forms can be faxed to (401) 222-6985

LEAD, WHOLE BLOOD, VENOUS

Lab & Phone #: Biomonitoring (401) 222-5552

Description/Test: Graphite furnace atomic absorption spectrophotometer

Specimen: Quantitative screening test of lead in blood of children under age 6.

Collect 300 µL of whole blood in EDTA (purple top) tube or heparin

(green top) tube.

Form Required: Rhode Island State Health Laboratories test requisition form.

Test Request: Lead Screen (Venous)

Transport: Stable at 2° - 8° C for one month.

Integrity: Clotted blood is unacceptable

Normal Value: Children: 0 to 9 µg/dL

Adults: 0 to 40 µg/dL

Turnaround Time: 5 business days

Kit: Kits are available at HEALTH Laboratories Central Receiving and may be

obtained Monday - Friday between 8:30 am and 4:30 pm. Test kit order

forms can be faxed to (401) 222-6985.

LEAD, WHOLE BLOOD, DIAGNOSTIC (FOR CHILDREN)

Lab & Phone #: Biomonitoring (401) 222-5552

Description/Test: Graphite furnace atomic absorption spectrophotometer

Specimen: Quantitative blood lead test to confirm childhood lead poisoning. Only

venous specimens will be accepted for diagnostic testing. Collect 300

μg/dL whole blood in EDTA (purple top) tube.

Form Required: Rhode Island State Health Laboratories test requisition form.

Test Request: Lead Diagnostic (venous only)

Transport: Stable at 2 - 8° C. Transport as soon as possible in separate package

clearly labeled "Priority Lead - Diagnostic".

Integrity: Clotted specimens are unacceptable

Normal Value: Children: 0 to 9 µg/dL

Turnaround Time: 2 business days

Kit: Kits are available at HEALTH Laboratories Central Receiving and may be

obtained Monday - Friday between 8:30 am and 4:30 pm. Test kit order

forms can be faxed to (401) 222-6985

LEGIONELLA PNEUMOPHILA

Lab & Phone #: Bioterrorism Response/Special Pathogens (401) 222-5586

Organism name: Legionella pneumophila

Disease: Legionellosis

Description/Test: Confirmation of *L. pneumophila* is performed at CDC.

Specimen: Pure isolate (<48 hrs old subculture) received on a slant of appropriate

media secured with a screw cap. Isolates on plated media are acceptable if

plates are sealed with parafilm or other appropriate barrier film.

Form Required: Rhode Island State Health Laboratories test requisition form.

CDC DASH Form

Test Request: Special Pathogens Bacterial Isolate

Write "Confirm *L. pneumophila*" in comment field on requisition form

Transport: Transport at ambient temperature as soon as possible after

identification/isolation. All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and laboratory send out departments.

Turnaround Time: Unknown (testing performed at CDC)

LISTERIA MONOCYTOGENES

Lab & Phone#: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism name: Listeria monocytogenes

Disease: Listeriosis

Description/Test: Confirmation of *L. monocytogenes* & PFGE analysis

Specimen: Freshly growing pure isolate received in a screw capped slant of

appropriate media. Isolates on plated media are acceptable if plates are

sealed with parafilm or other appropriate barrier film.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Special Pathogens Bacterial Isolate

Write "L. monocytogenes" in the comment field of the requisition form.

Transport: Transport at ambient temperature as soon as possible after identification.

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and

laboratory send out departments.

Turnaround Time: Isolate identification confirmation within 48 hours

PFGE results are entered into the national PFGE database

MORBILLIVIRUS (MEASLES)

Lab & Phone #: Serology (401) 222-5591

Organism Name: Measles virus

Disease: Measles

Special Instructions: PREAUTHORIZATION BY THE HEALTH DIVISION OF

INFECTIOUS DISEASE AND EPIDEMIOLOGY (401)222-2577 IS REQUIRED PRIOR TO SPECIMEN SUBMISSION. SPECIMENS

ARE SENT TO CDC FOR TESTING.

Test: Testing performed by the CDC

Specimen: Minimum 2ml serum

Transport: Transport as soon as possible after collection. All submissions must be

properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens to the HEALTH

Serology Laboratory are available in all hospital laboratories.

Form Required: Rhode Island State Health Laboratories test requisition form

CDC Dash Form

Test Request: CDC Sendout

Write "Measles" under comment field on requisition form

Turnaround Time: Unknown (testing performed at CDC)

Sent out within 1 business day

MUMPS VIRUS

Lab & Phone #: Serology (401) 222-5591

Organism name: Mumps virus

Disease: Mumps

Special Instructions: PREAUTHORIZATION BY THE HEALTH DIVISION OF

INFECTIOUS DISEASE AND EPIDEMIOLOGY (401)222-2577 IS REQUIRED PRIOR TO SPECIMEN SUBMISSION. SPECIMENS

ARE SENT TO CDC FOR TESTING.

Specimen: Blood -3 to 8 ml in 16 x 100 red top tube or a minimum of 2 ml of

separated serum

Form Required: Rhode Island State Health Laboratories test requisition form

CDC Dash Form

Test Request: CDC Sendout.

Write "Mumps" in comment field of requisition

Transport: Stable at 2° - 8 °C for one week. All submissions must be properly

packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens to the HEALTH

Serology Laboratory are available in all hospital laboratories.

Normal Value: The presence of IgM class antibodies or a fourfold or greater rise in paired

sera IgG titer indicates recent infection. The presence of demonstrable IgG

generally indicates past exposure and immunity

Turnaround Time: Unknown (testing performed at CDC)

Sent out within 1 business day

MYCOBACTERIUM TUBERCULOSIS

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Mycobacteriology Section: (401)222-5587

Organism Name: *Mycobacterium tuberculosis*

Disease: Tuberculosis (TB)

Description/Test: Specimens: Smear (fluorochrome stain) for presence of acid fast bacilli

and culture (liquid and solid media) for presence of *Mycobacterium sp.*Nucleic acid amplification testing (NAAT) is available for specimens meeting the criteria for testing. NAAT is reflexively ordered for all new

smear positive patients with no known history of tuberculosis.

<u>Isolates</u>: Identification/speciation by nucleic acid (DNA) probe or biochemical profile. Isolates that can't be speciated by the HEALTH laboratory and meet the criteria for identification by CDC are forwarded to

CDC for identification by molecular means (16s sequencing).

<u>Drug Susceptibility Testing</u>: Performed on isolates of *M.tuberculosis* only. Susceptibility testing on other clinically significant *Mycobacterium* sp. is available by special request; contact the Mycobacteriology section of

the Special Pathogens Lab at (401) 222-5587 for more information.

Specimen: Specimens: Refer to Rhode Island State Health Laboratories "Guide to

Mycobacteriology Laboratory Services" under the section: "Specimen

Collection and Transport"

<u>Isolate</u>: 4 ml liquid media (Lowenstein Jensen slant or Middlebrook 7H-10

7H-11 slant/plate is also acceptable)

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Specimens: AFB Smear & Culture

Isolates: AFB Identification

Transport: Refer to Rhode Island State Health Laboratories "Guide to

Mycobacteriology Laboratory Services" under the section: "Specimen

Collection and Transport"

All specimens and isolates must be in leak proof containers with properly fastened screw caps. All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Mycobacteriology Laboratory are available in all microbiology labs and laboratory send out departments. Shipments that meet the

definition for "Category A" infectious substances as defined by federal

regulation require additional packaging/labeling.

Normal Values: Smear: No AFB seen in smear

<u>Culture</u>: Culture negative for Mycobacteria

<u>NAAT</u>: PCR negative for *M. tuberculosis* complex

Turnaround Time: Smear: within 1 working day of specimen receipt

NAAT: within 2 working days

Culture: culture plates are held for 8 weeks before being reported as

negative for growth of Mycobacteria species

<u>Isolate identification</u>: dependent on method of identification. DNA probe testing is performed within 1 working day of isolate receipt

Antibiotic Susceptibility: 10-21 days from isolation and identification of

M.tuberculosis

Kits: Kits are available at HEALTH Laboratories Central Receiving and may be

obtained Monday – Friday between 8:30 am and 4:30 pm. Test order

forms can be faxed to (401) 222-6985

NEISSERIA GONORRHOEAE (culture)

Lab & Phone #: Molecular Diagnostic & Enteric Pathogens (401) 222-5538

Organism Name: Neisseria gonorrhoeae

Disease: Gonococcal Infection

Description/Test: N. gonorrhoeae

Specimen: PRIMARY CULTURES ARE ONLY ACCEPTED FROM STATE

DESIGNATED CLINICS. Primary specimen taken from rectal or throat (non-urogenital site) and inoculated onto Martin Lewis or Thayer Martin Plate. Sub plate immediately after specimen collection and incubate within 15 minutes of media inoculation at 35° C (+/-2°C) in CO2 atmosphere.

Isolates for confirmation can be sent on Martin Lewis or Thayer Martin.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Gonorrhea Culture

Transport: Transport at ambient temperature within 48 hours in bag containing CO2

tablet.

Isolates from Hospitals: All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Molecular & Enteric Laboratory are available in all

microbiology labs and laboratory send out departments.

Turnaround Time: Screening complete within 72 hours.

NEISSERIA GONNORRHEA

Lab & Phone #: Serology (401) 222-5591

Organism Name: Neisseria gonorrhoeae

Disease: Gonococcal infection

Description/Test: Nucleic Acid Amplification

Specimen: Swab (endocervix, urethra, vagina) or urine. Follow instructions for

collection printed on each collection kit.

This test is only approved for specimens from the following sites: endocervix, vagina, urethra or urine. Specimens received from other sites

will be rejected.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Chlamydia / Gonorrhea (cervical), Chlamydia / Gonorrhea (urethral),

Chlamydia / Gonorrhea (urine), Chlamydia / Gonorrhea (vaginal)

Transport: Specimen may be held at 2° - 30° C until transport. Specimen must be

received within 60 days of collection.

All submissions must be properly packaged in accordance with current

federal shipping regulations.

Integrity: Specimens not received in approved collection kit will be rejected

Normal Value: Negative

Turnaround Time: 3 business days

Kit: Kits are available at HEALTH Laboratories Central Receiving and may be

obtained Monday – Friday between 8:30 am and 4:30 pm. Test kit order

forms can be faxed to (401) 222-6985

NEISSERIA MENINGITIDIS

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism Name: Neisseria meningitidis

Disease: Meningococcal disease (invasive)

Description/Test: N. meningitidis confirmation and serogrouping

Specimen: Pure isolate (<48 hr. old subculture) from invasive disease/normally sterile

site. Send on a slant of chocolate agar secured with a screw cap. Isolates on plated media are acceptable if plates are sealed with parafilm or other

appropriate barrier film.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Special Pathogens Bacterial Isolate

Write "N. meningitidis" in comment field of requisition form

Transport: Transport at ambient temperature as soon as possible after identification.

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and

laboratory send out departments.

Turnaround Time: Isolate confirmation and serogroup reported within 72 hours.

NOROVIRUS

Lab & Phone #: Molecular Diagnostics & Enteric Pathogens (401) 222-5538

Organism Name:

Special Instructions: PREAUTHORIZATION BY THE HEALTH DIVISION OF

INFECTIOUS DISEASE AND EPIDEMIOLOGY (401) 222-6985 IS

REQUIRED PRIOR TO SPECIMEN SUBMISSION.

Description/Test: Polymerase Chain Reaction – RNA in stool

Specimen: Minimum 2 ml of stool specimen in clean vial without preservative

preferred. Specimens in Cary-Blair collection vials are acceptable.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Write "Norovirus" under comment field on requisition form

Transport: Transport within 24 hours of collection. Hold at 2° - 8 °C until transport.

Normal Value: Negative for Norovirus

Turnaround Time: 24 hours to 2 business days

Kit: Kits are available at HEALTH Laboratories Central Receiving and may be

obtained Monday – Friday between 8:30 am and 4:30 pm.

ORTHOPOX VIRUSES (variola, vaccinia, monkeypox, cowpox)

Lab & Phone #: Molecular Diagnostics & Enteric Pathogens (401)222-5538

Organism Name: Variola virus, vaccinia virus, monkeypox virus, cowpox virus

Diseases include: Smallpox, vaccinia, monkeypox, cowpox

Description/Test: Real time PCR testing is conducted at the RI Health Laboratories on

specimens from patients meeting the definition of low to moderate risk of having smallpox. Specimens from patients who have a clinical history consistent with a "high risk" of smallpox are sent from the RI Health Laboratories to a laboratory that has the capacity to identify variola virus (CDC or the NY State Health Department Laboratory). The CDC "Acute, Generalized Vesicular or Pustular Rash Illness Protocol" algorithm is used to determine smallpox risk. The algorithm can be found on the CDC website at the

following link:

http://emergency.cdc.gov/agent/smallpox/diagnosis/pdf/poxalgorithm11-14-07.pdf

Special Instructions: CONSULTATION AND APPROVAL FROM RI HEALTH DIVISION

OF INFECTIOUS DISEASE & EPIDEMIOLOGY IS REQUIRED

PRIOR TO SPECIMEN COLLECTION (401)222-2577.

Specimen: Extensive and detailed specimen collection instructions are provided in the

specialized "Smallpox Collection Kit"

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Special Pathogens Primary Specimen

Transport: All specimens must be received in a "RI State Health Laboratories"

Smallpox Collection and Transport Kit". These kits have been provided to hospital microbiology laboratories. Follow the instructions for specimen transport provided in the kit. All submissions must be properly packaged

in accordance with current federal shipping regulations.

Integrity: Strict adherence to the specimen collection instructions provided in the

specialized collection and transport kit.

Normal Value: PCR negative for non-variola orthopox

PCR negative for orthopox

Electron Microscopy (optional) negative for poxvirus

Turnaround Time: PCR result within 24 hours

Kit:

Specialized "Smallpox Collection & Transport Kits" are available in hospital microbiology laboratories. Detailed specimen collection and transport instructions are included in the kit.

PLASMODIUM SPECIES

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism Name: Plasmodium species

Disease: Malaria

Description/Test: Detection, identification and speciation of blood parasites through

microscopic examination of thin blood smears stained with

Wright/Giemsa stain.

Specimen: Submit thin blood smears stained with Wright/Giemsa stain. Stained thick

smears may be submitted in addition to thin smears, but not instead of thin smears. Specimens must be labeled with the patient's name or other

identifier such as the requisition number label.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Blood Parasite ID/Confirmation

Transport: Transport stained smears in cardboard or plastic slide carriers to laboratory

as soon as possible. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and laboratory

send out departments.

Integrity: Thick stained blood smear received without a thin stained blood smear

will not be tested.

Normal Value: No blood parasites observed

Turnaround Time: 2 business days

<u>RABIES VIRUS</u>

Lab & Phone #: Bioterrorism Response & Special Pathogens (human) (401) 222-5586

Water Microbiology (for animal testing) (401) 222-5588

Organism Name: Rabies virus

Disease: Rabies

Test: PREAUTHORIZATION BY THE HEALTH DIVISION OF

INFECTIOUS DISEASE AND EPIDEMIOLOGY (401) 222-2577 IS REQUIRED PRIOR TO SPECIMEN COLLECTION AND SUBMISSION. If testing is approved, human clinical specimens are sent from the HEALTH Special Pathogens Laboratory to the CDC for testing.

Specimen: HUMAN: PREAUTHORIZATION BY THE HEALTH DIVISION

OF INFECTIOUS DISEASE AND EPIDEMIOLOGY (401) 222-2577 IS REQUIRED PRIOR TO SPECIMEN COLLECTION AND SUBMISSION Specific specimens, specimen collection methods and

specimen transport conditions are required for this test.

Forms Required: Rhode Island State Health Laboratories test requisition form

CDC DASH Form

CDC "Possible Human Rabies - Patient Information Form"

Test Request: CDC Sendout

Transport: See "Specimen" information above. Contact the HEALTH Special

Pathogens Lab (401) 222-5586 **prior** to transport. All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and laboratory send out

departments.

Turnaround Time: Unknown (testing performed by CDC)

RICKETTSIA PROWAZEKII

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism Name: Rickettsia prowazekii

Disease: Typhus

Description Test: PREAUTHORIZATION BY THE HELATH DIVISION OF

INFECTIOUS DISEASE AND EPIDEMIOLOGY (401) 222-2577 IS REQUIRED PRIOR TO SPECIMEN COLLECTION AND SUBMISSION. If testing is approved, specimens are sent from the

HEALTH Special Pathogens Laboratory to the CDC for testing.

Specimen: Consult with the HEALTH Special Pathogens Lab (401) 222-5586 for

guidance on specimen selection, collection and submission.

Form Required: Rhode Island State Health Laboratories test requisition form

CDC DASH Form

Test Request: CDC Sendout

Transport: All submissions must be properly packaged in accordance with current

federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and

laboratory send out departments.

Turnaround Time: Unknown (testing performed by CDC)

<u>RICKETTSIA RICKETTSII</u>

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism Name: Rickettsia rickettsii

Disease: Rocky Mountain Spotted Fever

Description Test: PREAUTHORIZATION BY THE HEALTH DIVISION OF

INFECTIOUS DISEASE AND EPIDEMIOLOGY (401) 222-2577 IS REQUIRED PRIOR TO SPECIMEN COLLECTION AND SUBMISSION. If testing is approved, specimens are sent from the

HEALTH Special Pathogens Laboratory to the CDC for testing.

Specimen: Consult with the HEALTH Special Pathogens Lab (401) 222-5586 for

guidance on specimen selection, collection and submission.

Form Required: Rhode Island State Health Laboratories test requisition form

CDC DASH Form

Test Request: CDC Sendout

Transport: All submissions must be properly packaged in accordance with current

federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and

laboratory send out departments.

Turnaround Time: Unknown (testing performed by CDC)

RUBELLA VIRUS

Lab & Phone #: Serology (401) 222-5591

Organism Name: Rubella virus

Disease: Rubella

Test: Testing performed by the CDC

Specimen: Minimum 2ml serum

Transport: Transport as soon as possible after collection. All submissions must be

properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens to the HEALTH

Serology Laboratory are available in all hospital laboratories.

Form Required: Rhode Island State Health Laboratories test requisition form

CDC Dash Form

Test Request: CDC Sendout

Write "Rubella IgG" in comment field on requisition form

Turnaround Time: Unknown (testing performed at CDC)

Sent out within 1 business day

SALMONELLA SPECIES

Lab & Phone #: Molecular Diagnostics & Enteric Pathogens (401) 222-5538

Organism Name: Salmonella species

Disease: Salmonellosis gastroenteritis

Description/Test: Genus and species identification of pathogenic isolates

Specimen: Pure isolate not more than 48 hours old on appropriate plated media sealed

with parafilm or other appropriate barrier film is preferred. Appropriate

tubed media is also acceptable.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Enteric Pathogen Isolate

Write "Salmonella" in comment field on requisition form

Transport: Within 24 to 48 hours of subculture at ambient (room) temperature 25° -

35° C

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Molecular & Enteric Laboratory are available in all microbiology labs and laboratory send out

departments

Integrity: Pure isolate must be received

Normal Value: Negative for Salmonella

<u>SALMONELLA TYPHI</u>

Lab & Phone #: Molecular Diagnostics & Enteric Pathogens (401) 222-5538

Organism Name: Salmonella typhi, Group D

Disease: Typhoid fever

Description/Test: Genus and species identification of pathogenic isolates

Specimen: Pure isolate not more than 48 hours old on appropriate plated media sealed

with parafilm or other appropriate barrier film is preferred. Appropriate

tubed media is also acceptable.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Enteric Pathogen Isolate

Write "Salmonella typhi" in comment field on requisition form

Transport: Within 24 to 48 hours of subculture at ambient (room) temperature 25° -

35° C

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Molecular & Enteric Laboratory are available in all microbiology labs and laboratory send out

departments

Integrity: Pure isolate must be received

Normal Value: Negative for Salmonella typhi

SHIGELLA SPECIES

Lab & Phone #: Molecular Diagnostics & Enteric Pathogens (401) 222-5538

Organism Name: Shigella species

Disease: Shigellosis gastroenteritis

Description/Test: Genus and species identification of pathogenic isolates

Specimen: Pure isolate not more than 48 hours old on appropriate plated media sealed

with parafilm or other appropriate barrier film is preferred. Appropriate

tubed media is also acceptable.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Enteric Pathogen Isolate

Write "Shigella" in comment field on requisition form

Transport: Within 24 to 48 hours of subculture at ambient (room) temperature 25° -

35° C

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Molecular & Enteric Laboratory are available in all microbiology labs and laboratory send out

departments

Integrity: Pure isolate must be received

Normal Value: Negative for Shigella

STAPHYLOCOCCUS AUREUS (VRSA/VISA)

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism name: Staphylococcus aureus, with a vancomycin susceptibility result of

intermediate or resistant

Disease: Staphylococcal infection

Description/Test: Testing to confirm vancomycin susceptibility is performed at CDC.

Specimen: Pure isolate (<48 hrs old subculture) received on a slant of appropriate

media secured with a screw cap. Isolates on plated media are acceptable if

plates are sealed with parafilm or other appropriate barrier film.

Form Required: Rhode Island State Health Laboratories test requisition form.

CDC DASH Form

Copy of drug susceptibility testing results

Test Request: Special Pathogens Bacterial Isolate

Write "VRSA" or "VISA" in comment field on requisition form

Transport: Transport at ambient temperature as soon a possible after susceptibility

testing is completed. All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and laboratory send out departments.

Turnaround Time: Unknown (testing performed at CDC)

STREPTOCOCCUS PNEUMONIAE

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism Name: Streptococcus pneumoniae

Disease: Pneumococcal disease (invasive)

Description/Test: MIC (performed by CDC)

Specimen: Only isolates from invasive disease/normally sterile site that are penicillin

resistant by oxacillin disk screen and have **not** had a MIC performed. Submit a freshly growing pure isolate (< 48 hours old) on a chocolate agar slant secured with a screw cap. Isolates on plated media are acceptable if

plates are sealed with parafilm or other appropriate barrier film.

Form Required: Rhode Island State Health Laboratories test requisition form

CDC DASH Form

Test Request: Special Pathogens Bacterial Isolate

Write "S. pneumoniae" in comment field of requisition form

Transport: All submissions must be properly packaged in accordance with current

federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and

laboratory send out departments.

Turnaround Time: Unknown (testing performed at CDC)

STREPTOCOCCUS PYOGENES (GROUP A STREP)

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism Name: Streptococcus pyogenes, (Group A Strep)

Disease: Group A Streptococcal disease (invasive)

Test: No testing performed unless requested through and approved by HEALTH

Division of Infectious Disease and Epidemiology (401) 222-2577. Isolates are banked at the HEALTH Laboratory pending potential further testing to

support epidemiological investigations.

Specimen: Pure isolate (<48 hrs. old) from normally sterile site. Submit on a slant of

appropriate media secured with a screw cap. Isolates on plated media are acceptable if plates are sealed with parafilm or other appropriate barrier

film.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Special Pathogens Bacterial Isolate.

Write "S. pyogenes" in comment field of requisition form

Transport: All submissions must be properly packaged in accordance with current

federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and

laboratory send out departments.

Turnaround Time: Not applicable

TREPONEMA PALLIDUM

Lab & Phone #: Serology (401) 222-5591

Organism Name: Treponema pallidum

Disease: Syphilis (primary, secondary, early latent, late latent)

Description/Test: Fluorescent Treponemal Antibody – Absorption (FTA-ABS) test to

confirm all reactive RPR tests or VDRL on spinal fluid.

Specimen: Blood – 3 to 8 ml in red top tube or 2 ml serum. Minimum 0.5 ml

centrifuged cerebrospinal fluid.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Syphilis FTA-ABS – Blood /Serum

VDRL - CSF

Transport: Refrigerate at 2° - 8° C and transport within 24 to 48 hours of collection.

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens to the HEALTH Serology Laboratory are available in all

hospital laboratories.

Integrity: Stable at 2° - 8° C for one week.

Normal Value: Non-reactive

Turnaround Time: 5 business days

VIBRIO CHOLERAE 01 or 0139

Lab & Phone #: Molecular Diagnostics & Enteric Pathogens (401) 222-5538

Organism Name: Vibrio cholerae 01 or 0139

Disease: Cholera

Description/Test: Genus and species identification of pathogenic isolates

Specimen: Pure isolate not more than 48 hours old on plated media

sealed with parafilm or other appropriate barrier film is preferred. Tubed

media is also acceptable.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Enteric Pathogen Isolate

Write "Vibrio cholerae" in comment field on requisition form

Transport: Within 24 to 48 hours of subculture at ambient (room) temperature 25° -

35° C

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Molecular & Enteric Laboratory are available in all microbiology labs and laboratory send out

departments

Integrity: Pure isolate must be received

Normal Value: Negative for *Vibrio*

VIBRIO PARAHAEMOLYTICUS

Lab & Phone #: Molecular Diagnostics & Enteric Pathogens (401) 222-5538

Organism Name: Vibrio parahaemolyticus

Disease: Vibriosis

Description/Test: Genus and species identification of pathogenic isolates

Specimen: Pure isolate not more than 48 hours old on appropriate plated media sealed

with parafilm or other appropriate barrier film is preferred. Appropriate

tubed media is also acceptable.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Enteric Pathogen Isolate

Write "Vibrio parahaemolyticus" in comment field on requisition form

Transport: Within 24 to 48 hours of subculture at ambient (room) temperature 25° -

35° C

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Molecular & Enteric Laboratory are available in all microbiology labs and laboratory send out

departments

Integrity: Pure isolate must be received

Normal Value: Negative for *Vibrio*

VIBRIO VULNIFICUS

Lab & Phone #: Molecular Diagnostics & Enteric Pathogens (401) 222-5538

Organism Name: Vibrio vulnificus

Disease: Vibriosis

Description/Test: Genus and species identification of pathogenic isolates

Specimen: Pure isolate not more than 48 hours old on appropriate plated media sealed

with parafilm or other appropriate barrier film is preferred. Appropriate

tubed media is also acceptable.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Enteric Pathogen Isolate

Write "Vibrio vulnificus" in comment field on requisition form

Transport: Within 24 to 48 hours of subculture at ambient (room) temperature 25° -

35° C

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Molecular & Enteric Laboratory are available in all microbiology labs and laboratory send out

departments

Integrity: Pure isolate must be received

Normal Value: Negative for *Vibrio*

VIRAL HEMORRHAGIC FEVER (EBOLA, LASSA, MARBURG, ETC)

Lab & Phone #: Bioterrorism Response & Special Pathogens Lab (401) 222-5586

Organism Name: Ebola, Lassa, Marburg, etc.

Disease: Viral Hemorrhagic Fever

Description/Test: Testing is performed by CDC

Special Instructions: ALL LABORATORIES MUST NOTIFY THE DEPARTMENT OF

HEALTH DIVISION OF INFECTIOUS DISEASE AND EPIDEMIOLOGY AT (401) 222-2577/222-2432 AND THE HEALTH BIOTERRORISM RESPONSE LABORATORY AT (401) 222-5586 IMMEDIATELY WHEN A PHYSICIAN SUSPECTS VIRAL HEMORRHAGIC FEVER (VHF). DO NOT COLLECT SPECIMENS PRIOR TO CONSULTATION. PREAUTHORIZATION IS NECESSARY PRIOR TO SENDING

SPECIMENS.

Specimen: Refer to the current version of the LRN Sentinel Protocol for Unknown

Viruses for appropriate selection and collection of specimens for VHF testing. This protocol is available in your microbiology laboratory and can also be accessed via the internet at:

http://www.asm.org/index.php/policy/sentinel-level-clinical-

microbiology-laboratory-guidelines.html

If, based on clinical history, VHF is suspected specimens are accepted only with preauthorization from HEALTH Division of Infectious Disease and Epidemiology. Consult with the Bioterrorism Response Lab (222-5586) for guidance on specimen selection, collection and transport. Specimens must be selected, collected and stored in strict accordance with

LRN protocols.

Form Required: Rhode Island State Health Laboratory test requisition form

CDC DASH Form

Test Request: Special Pathogens Primary Specimen

Transport: Preauthorization is necessary prior to collecting and sending specimens.

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and laboratory send out departments. Shipments that meet the definition for "Category A" infectious substances as defined by federal regulation

require additional packaging/labeling.

Normal Value: Negative for VHF agent suspected

Turnaround Time: Unknown (testing performed at CDC)

YERSINIA ENTEROCOLITICA

Lab & Phone #: Molecular Diagnostics & Enteric Pathogens (401) 222-5538

Organism Name: Yersinia enterocolitica

Disease: Yersiniosis

Description/Test: Genus and species identification of pathogenic isolates

Specimen: Pure isolate not more than 48 hours old on appropriate plated media sealed

with parafilm or other appropriate barrier film is preferred. Appropriate

tubed media is also acceptable.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Enteric Pathogen Isolate

Write "Yersinia" in comment field on requisition form

Transport: Within 24 to 48 hours of subculture at ambient (room) temperature 25° -

35° C

All submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Molecular & Enteric Laboratory are available in all microbiology labs and laboratory send out

departments

Integrity: Pure isolate must be received

Normal Value: Negative for *Yersinia*

YERSINIA PESTIS

Lab & Phone #: Bioterrorism Response/Special Pathogens Lab (401) 222-5586

Organism Name: Yersinia pestis

Disease: Plague (pneumonic, bubonic, septicemic)

Description/Test: PCR and culture for detection and confirmation of *Y. pestis*

Special Instructions: ALL LABORATORIES MUST NOTIFY THE DEPARTMENT OF

> HEALTH DIVISION OF INFECTIOUS DISEASE AND EPIDEMIOLOGY (401)222-2577 AND THE HEALTH

BIOTERRORISM RESPONSE LABORATORY AT (401) 222-5586

IMMEDIATELY WHEN TEST IS ORDERED OR

SPECIMEN/ISOLATE IS SUSPICIOUS FOR A POTENTIAL AGENT OF BIOTERRORISM. PREAUTHORIZATION IS NECESSARY PRIOR TO SENDING SPECIMENS OR ISOLATES.

Specimen: Refer to the current version of the LRN Sentinel Protocol for appropriate

> specimen selection and testing. This protocol is available in your microbiology laboratory and can also be accessed via the internet at:

http://www.asm.org/index.php/policy/sentinel-level-clinical-

microbiology-laboratory-guidelines.html

Isolate: If a lab is unable to rule out Y. pestis after performing LRN Sentinel screening tests, isolate is to be submitted on either a slant or a culture plate sealed with parafilm (or other appropriate barrier film). If based on clinical history there is a strong index of suspicion for plague, labs may be requested by HEALTH to submit the original culture plate on

the initial day of isolation.

Clinical Specimens: If based on clinical history, plague is suspected, specimens are accepted for PCR testing. Submit original specimen on day of receipt. Consult with the HEALTH Bioterrorism Laboratory for appropriate specimen selection and submit original specimen as soon as possible after collection. Securely seal with parafilm or other appropriate barrier film and ship maintaining refrigerated temperature conditions by surrounding the internal shipping container with blue or wet ice.

Form Required: Rhode Island State Health Laboratories test requisition form

Test Request: Isolates: Special Pathogens Bacterial Isolate

> Specimens: Special Pathogens Primary Specimen Write "Y. pestis" in comment field of requisition form

Transport: Preauthorization is necessary prior to sending primary specimens. All

submissions must be properly packaged in accordance with current federal shipping regulations. Containers specifically labeled for transport of specimens and isolates to the HEALTH Bioterrorism Response & Special Pathogens Laboratory are available in all microbiology labs and laboratory send out departments. Shipments that meet the definition for "Category A" infectious substances as defined by federal regulation require

additional packaging/labeling.

Normal Value: Negative for *Yersinia pestis*

Turnaround Time: PCR result within 24 hours

Isolate culture confirmation within 72 hours.